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APPLICATION NO.	HLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/082,824	10/19/2001	Jeffiy R. Meyer	ABHS-0169.B970532	3607
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Woodcock Washburn LLP			EXAMINER	
One Liberty Place - 46th Floor Philadelphia, PA 19103			DONOVAN, LINCOLN D	
			ART UNIT	PAPER NUMBER
			2832	

DATE MAILED: 05/28/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.

Applicant(s)

10/082,824

Meyer

Examiner

Office Action Summary

Lincoln Donovan

Art Unit **2832**



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 1) X Responsive to communication(s) filed on Mar 10, 2003 2a) This action is **FINAL**. 2b) X: This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. Disposition of Claims is/are pending in the application. 4) X Claim(s) 1-22 and 24-28 4a) Of the above, claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. is/are rejected. 6) X Claim(s) 1-22 and 24-28 is/are objected to. 7) _ 3 Claim(s) are subject to restriction and/or election requirement. 8) Claims **Application Papers** The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). a) The translation of the foreign language provisional application has been received. Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 15) Attachment(s) 4) ___ Interview Summary (PTO-413) Paper No(s). 1) Notice of References Cited (PTO-892) 5) [Notice of Informal Patent Application (PTO-152) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s).

Application/Control Number: 10/082,824

Art Unit: 2832

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 8-11, 13-14, 16-18 and 20-21, are rejected under 35 U.S.C. 102(b) as being anticipated by Bastle [US 4,008,876].

Bastle discloses a solenoid valve [figures 1-4] comprising:

- a rod-shaped armature [32] having an extension [figures 1-4];
- a shoulder extension [38] on the armature; and
- a biasing spring [36] mounted coaxially about the armature and engaging the shoulder.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having

Application/Control Number: 10/082,824

Art Unit: 2832

ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1, 2 and 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bastle.

Bastle discloses the instant claimed invention except for the specific method steps.

It would have been obvious that the specific method steps claimed would have been inherent in the product structure.

5. Claims 3-4, 12, 19 and 24-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bastle in view of Grunert et al. [US 4,713,639].

Bastle discloses the instant claimed invention except for a space between the armature end and the mechanism to be engaged.

Grunert et al. discloses a solenoid controlled armature engaging a mechanism with a space between the armature and member to be engaged [figure 1].

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to provide a space between the armature end and engagement piece in Bastle, as suggested by Grunert et al., for the purpose of providing an impact at engagement.

Regarding claims 24-28, the specific "delay time" of the activation/movement of the armature would have been an obvious design consideration based on the specific application and current applied to the coil.

The specific method steps claimed would have been necessitated in the product structure.

Application/Control Number: 10/082,824 Page 4

Art Unit: 2832

6. Claims 7, 15 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bastle,

as applied to claims 1, 8 and 16, respectively, above and further in view of Harper et al. [US

4,062,052].

Bastle discloses the instant claimed invention except for an additional mass formed with the

armature.

Harper et al. discloses the armature being enlarged.

It would have been obvious to one having ordinary skilled in the art at the time the invention

was made to enlarge the armature of Bastle, as suggested by Harper et al., for the purpose of

avoiding unwanted motion.

It would have been obvious that the specific method steps claimed would have been inherent

in the product structure.

Response to Arguments

7. Applicant's arguments filed 03-10-03 have been fully considered but they are not persuasive.

Regarding rejections under USC 102 and 103. Applicant argues that "Bastle does not

disclose or suggest a delay member that 'significantly' delays the motion of the armature with a delay

force to delay the movement of the armature from the first position to the second position until the

armature exhibits an armature force greater that the maximum force necessary to activate the

mechanism." Examiner disagrees. Bastle discloses a spring member [36] biasing the armature. The

Application/Control Number: 10/082,824 Page 5

Art Unit: 2832

mechanism of Bastle is not going to be activated until the force applied by the armature against the spring is greater than the maximum force applied by the spring to the armature."

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Lincoln Donovan whose telephone number is (703) 308-3111.

The fax number for this Group is (703)-872-9318.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703)308-0956.

LDD

May 23, 2003

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